

PANAMA CANAL AUTHORITY		VARIATION	PAGE 1 OF 3
1. REQUEST FOR PROPOSAL No.:	2. CONTRACT No.:	3. DATE:	4. VARIATION No.:
RFP-76161	CMC-221427	March 26, 2013	064

5. ISSUED BY:

PANAMA CANAL AUTHORITY
Employer's Representative
Locks Project Management Division
Building 740, Corozal
Panama, Republic of Panama

6. NAME AND ADDRESS OF CONTRACTOR (INCLUDE PHYSICAL & POSTAL ADDRESS)	7. CONTRACTOR'S TELEPHONE NUMBER:
Grupo Unidos por el Canal, S.A. Building 22B, Brujas Road Cocoli, Republic of Panama	507-316-9900
	8. CONTRACTOR'S FACSIMILE NUMBER:

9. VARIATION:

The contract referred to in item No. 2 is hereby varied as set forth in item 10, entitled "DESCRIPTION OF VARIATION".

YES. NO. The contractor shall send a copy, duly signed, of this Variation to the Employer's Representative/Contracting Officer.

9 A. THIS VARIATION IS EXECUTED ON THE BASIS OF: (Specify the legal authority).
THE VARIATION DESCRIBED IN ITEM 10 IS HEREBY INCORPORATED AND MADE A PART OF THE CONTRACT.
9 B. THE CONTRACT REFERRED TO IN ITEM NO. 2, IS VARIED TO INCORPORATE ADMINISTRATIVE CHANGES (such as the paying office, account numbers, etc.).
X 9 C. THIS BILATERAL AGREEMENT IS SIGNED AND INCORPORATED INTO THE CONTRACT REFERRED TO IN ITEM NO. 2 OF THIS FORM, ON THE BASIS OF: (Specify the legal authority) Volume III, Conditions of Contract, Sub-Clause 1.16 [Entire Agreement], 4 th Paragraph
9 D. OTHER. (Specify manner and the legal authority).
9 E. ACCOUNT NUMBER (If required):

10. DESCRIPTION OF THE VARIATION (List in accordance with the order of the Contract. If additional space is required, use blank sheets).

See attached

Except for the variation(s) herein specified, all other terms and conditions of the Contract remain unchanged.

11. NAME AND TITLE OF THE PERSON AUTHORIZED TO SIGN (Type or print)	12. NAME AND TITLE OF THE EMPLOYER'S REPRESENTATIVE/CONTRACTING OFFICER (Type or print)		
Bernardo Gonzalez Contractor's Representative	Jorge de la Guardia, Employer's Representative		
13. CONTRACTOR	14. DATE:	15. PANAMA CANAL AUTHORITY	16. DATE:
 (Authorized signature)	26/05/2013	 (Employer's Representative/Contracting Officer's signature)	26/05/2013

Variation No. 64 is issued to incorporate the following changes:

1. **Volume II, Part 1, Section 01 81 19 [Locks Performance and Design Criteria]-**
Delete the last sentence of Paragraph 1.03 B.1 and replace it with the following:

"The results must also be visually verifiable from inside the connecting longitudinal passageway mentioned above." (RFV-049)

2. **Volume II, Part 2, Section 40 91 00 [Primary Process Measurement Devices]-**
Delete Paragraph 1.03 B.10.a, and replace it with the following:

"a. When used for water level measurement in lock chambers and WSBs, these sensors shall be called water level transducers (WLT), and the following requirements shall apply:" (RFV-049)

3. **Volume II, Part 2, Section 40 91 00 [Primary Process Measurement Devices]-**
Add a new Paragraph 1.03 B.13 as follows:

"13. Water Level Transducers for RG Tanks to be filled with Water:

- a. *This type of WLT shall be used for flotation control requirements of rolling gates, in accordance with Section 01 81 19 (Lock Gates).*
- b. *These sensors shall be Guided Wave Radar (GWR) type, IP 67 compliant per IEC 60529, light weight, corrosion resistant, with one 4-20 mA HART output, 10 mm or better accuracy, and an algorithm to eliminate reflection and wave effects unless otherwise approved by the Employer.*
- c. *Process value output shall be continuous and smooth, maintaining at least the minimum specified accuracy requirements throughout the measuring range.*
- d. *Sensor support structure shall be rigid and constructed of corrosion resistant materials."* (RFV-049)

4. **Volume II, Part 2, Section 40 91 00 [Primary Process Measurement Devices]-**
Delete Paragraph 1.03 C.10.a, and replace it with the following:

"10. Water Level Transducers (WLTs) for Locks Chambers and WSBs

- a. *Transducers for lock chambers and WSBs shall be installed on top of water level measurement wells, in accordance with Figure 40 91 00-1"* (RFV-049)



Design and Construction of the Third Set of Locks

5. **Volume II, Part 2, Section 40 91 00 [Primary Process Measurement Devices]-**
Add Paragraph 1.03 C.15 as follows:

"15. Water Level Transducers for RG Ballast Tanks:

- a. *Instruments shall be installed inside the RG corridor at the highest elevation possible, leaving the required space for an easy maintenance.*
- b. *A separate display shall be provided to allow local reading."* (RFV-049)

There is no time or cost impact to the Locks Contract as a consequence of this Variation.

